

# ALUMINUM ELECTROLYTIC CAPACITORS

# UHE

Miniature Sized, Low Impedance,  
High Reliability



- Low impedance and high reliability withstanding 4000 hours to 10000 hours.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



## Specifications

| Item  | Performance Characteristics  |   |            |            |             |      |      |      |      |               |   |
|---|--|---|------------|------------|-------------|------|------|------|------|---------------|---|
| Category Temperature Range  | -40 to +105°C  |   |            |            |             |      |      |      |      |               |   |
| Rated Voltage Range   | 6.3 to 100V  |   |            |            |             |      |      |      |      |               |   |
| Rated Capacitance Range   | 2.2 to 18000μF   |   |            |            |             |      |      |      |      |               |   |
| Capacitance Tolerance   | ±20% at 120Hz, 20°C  |   |            |            |             |      |      |      |      |               |   |
| Leakage Current   | After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.  |   |            |            |             |      |      |      |      |               |   |
| Tangent of loss angle (tan δ)   | Rated voltage (V)  | 6.3   | 10         | 16         | 25          | 35   | 50   | 63   | 100  | 120Hz<br>20°C |   |
|   | tan δ (MAX.)   | 0.22  | 0.19       | 0.16       | 0.14        | 0.12 | 0.10 | 0.09 | 0.08 |               |   |
| For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. |  |   |            |            |             |      |      |      |      |               |   |
| Stability at Low Temperature  | Rated voltage (V)  | 6.3   | 10         | 16         | 25          | 35   | 50   | 63   | 100  | 120Hz         |   |
|   | Impedance ratio (MAX.)   | Z-25°C/Z+20°C                                 | 4          | 3          | 2           | 2    | 2    | 2    | 2    |               | 2 |
|   |  | Z-40°C/Z+20°C                                 | 8          | 6          | 4           | 3    | 3    | 3    | 3    | 3             |   |
| Endurance   | The following specifications shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied at 105°C, the peak voltage shall not exceed the rated voltage. |   |            |            |             |      |      |      |      |               |   |
|   | Case size  |   | φD ≤ 6.3   | φD = 8, 10 | φD ≥ 12.5   |      |      |      |      |               |   |
|   | Rated voltage (V)  | 6.3 to 10WV                                   | 4000 hours | 6000 hours | 8000 hours  |      |      |      |      |               |   |
|   |  | 16 to 100WV                                   | 5000 hours | 7000 hours | 10000 hours |      |      |      |      |               |   |
|   | Capacitance change   | Within ±25% of the initial capacitance value  |            |            |             |      |      |      |      |               |   |
|   | tan δ  | 200% or less than the initial specified value |            |            |             |      |      |      |      |               |   |
| Leakage current   | Less than or equal to the initial specified value  |   |            |            |             |      |      |      |      |               |   |
| Marking   | Printed with white color letter on black sleeve.   |   |            |            |             |      |      |      |      |               |   |

## Radial Lead Type



• Please refer to page 20 about the end seal configuration.

## Frequency coefficient of rated ripple current

| Cap. (μF)     | Frequency |       |       |      |               |
|---------------|-----------|-------|-------|------|---------------|
|               | 50Hz      | 120Hz | 300Hz | 1kHz | 10kHz or more |
| 2.2 to 33     | 0.45      | 0.55  | 0.70  | 0.90 | 1.00          |
| 39 to 330     | 0.60      | 0.70  | 0.85  | 0.95 | 1.00          |
| 390 to 1000   | 0.65      | 0.75  | 0.90  | 0.98 | 1.00          |
| 1200 to 18000 | 0.75      | 0.80  | 0.95  | 1.00 | 1.00          |

## Type numbering system (Example : 10V 1000μF)



### ※ Configuration

| φ D        | Pb-free leadwire<br>Pb-free PET sleeve |
|------------|--|
| 5          | DD                                     |
| 6.3        | ED                                     |
| 8 - 10     | PD                                     |
| 12.5 to 18 | HD                                     |

Please refer to page 20, 21, 22 about the formed or taped product spec.  
Please refer to page 4 for the minimum order quantity.

● Dimension table in next page.

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■ Dimensions

| Cap.(μF) | V (Code)<br>Item<br>Code | 6.3 (0J)                    |                    |                |   | 10 (1A)                     |                    |                |   |
|----------|--------------------------|-----------------------------|--------------------|----------------|---|-----------------------------|--------------------|----------------|---|
|          |                          | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |                | Rated ripple<br>(mArms)<br>105°C / 100kHz | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |                | Rated ripple<br>(mArms)<br>105°C / 100kHz |
|          |                          |                             | 20°C / 100kHz      | -10°C / 100kHz |   |                             | 20°C / 100kHz      | -10°C / 100kHz |   |
| 100      | 101                      |                             |                    |                |   | 5 × 11                      | 0.58               | 2.3            | 210                                       |
| 150      | 151                      | 5 × 11                      | 0.58               | 2.3            | 210                                       |                             |                    |                |   |
| 220      | 221                      |                             |                    |                |   | 6.3 × 11                    | 0.22               | 0.87           | 340                                       |
| 330      | 331                      | 6.3 × 11                    | 0.22               | 0.87           | 340                                       |                             |                    |                |   |
| 470      | 471                      |                             |                    |                |   | 8 × 11.5                    | 0.13               | 0.52           | 640                                       |
| 680      | 681                      | 8 × 11.5                    | 0.13               | 0.52           | 640                                       | 8 × 15                      | 0.087              | 0.35           | 840                                       |
|          |                          |                             |                    |                |   | ▲ 10 × 12.5                 | 0.080              | 0.32           | 865                                       |
| 820      | 821                      | 10 × 12.5                   | 0.080              | 0.32           | 865                                       |                             |                    |                |   |
| 1000     | 102                      | 8 × 15                      | 0.087              | 0.35           | 840                                       | 8 × 20                      | 0.069              | 0.27           | 1050                                      |
|          |                          |                             |                    |                |   | ▲ 10 × 16                   | 0.060              | 0.24           | 1210                                      |
| 1200     | 122                      | 8 × 20                      | 0.069              | 0.27           | 1050                                      | 10 × 20                     | 0.046              | 0.18           | 1400                                      |
|          |                          | ▲ 10 × 16                   | 0.060              | 0.24           | 1210                                      |                             |                    |                |   |
| 1500     | 152                      | 10 × 20                     | 0.046              | 0.18           | 1400                                      | 10 × 25                     | 0.042              | 0.17           | 1650                                      |
|          |                          |                             |                    |                |   | ▲ 12.5 × 15                 | 0.049              | 0.16           | 1450                                      |
| 1800     | 182                      | 12.5 × 15                   | 0.049              | 0.16           | 1450                                      |                             |                    |                |   |
| 2200     | 222                      | 10 × 25                     | 0.042              | 0.17           | 1650                                      | 10 × 31.5                   | 0.031              | 0.12           | 1910                                      |
|          |                          |                             |                    |                |   | ▲ 12.5 × 20                 | 0.035              | 0.12           | 1900                                      |
|          |                          |                             |                    |                |   | ● 16 × 15                   | 0.042              | 0.12           | 1940                                      |
| 2700     | 272                      | ▲ 10 × 31.5                 | 0.031              | 0.12           | 1910                                      | 18 × 15                     | 0.043              | 0.11           | 2210                                      |
|          |                          | 16 × 15                     | 0.042              | 0.12           | 1940                                      |                             |                    |                |   |
| 3300     | 332                      | 12.5 × 20                   | 0.035              | 0.12           | 1900                                      | 12.5 × 25                   | 0.027              | 0.089          | 2230                                      |
| 3900     | 392                      | 12.5 × 25                   | 0.027              | 0.089          | 2230                                      | 12.5 × 31.5                 | 0.024              | 0.078          | 2650                                      |
|          |                          | ▲ 18 × 15                   | 0.043              | 0.11           | 2210                                      | ▲ 16 × 20                   | 0.027              | 0.078          | 2530                                      |
| 4700     | 472                      | 12.5 × 31.5                 | 0.024              | 0.078          | 2650                                      | 12.5 × 35.5                 | 0.020              | 0.065          | 2880                                      |
| 5600     | 562                      | 12.5 × 35.5                 | 0.020              | 0.065          | 2880                                      | 12.5 × 40                   | 0.017              | 0.056          | 3350                                      |
|          |                          | ▲ 16 × 20                   | 0.027              | 0.078          | 2530                                      | ▲ 16 × 25                   | 0.021              | 0.060          | 2930                                      |
|          |                          |                             |                    |                |   | ● 18 × 20                   | 0.026              | 0.067          | 2860                                      |
| 6800     | 682                      | 12.5 × 40                   | 0.017              | 0.056          | 3350                                      | 16 × 31.5                   | 0.017              | 0.050          | 3450                                      |
|          |                          | ▲ 16 × 25                   | 0.021              | 0.060          | 2930                                      |                             |                    |                |   |
|          |                          | ● 18 × 20                   | 0.026              | 0.067          | 2860                                      |                             |                    |                |   |
| 8200     | 822                      | 16 × 31.5                   | 0.017              | 0.050          | 3450                                      | 16 × 35.5                   | 0.015              | 0.044          | 3610                                      |
|          |                          |                             |                    |                |   | ▲ 18 × 31.5                 | 0.015              | 0.040          | 4170                                      |
| 10000    | 103                      | 16 × 35.5                   | 0.015              | 0.044          | 3610                                      | 16 × 40                     | 0.013              | 0.038          | 4080                                      |
|          |                          | ▲ 18 × 25                   | 0.019              | 0.049          | 3140                                      | ▲ 18 × 35.5                 | 0.014              | 0.038          | 4220                                      |
| 12000    | 123                      | 16 × 40                     | 0.013              | 0.038          | 4080                                      | 18 × 40                     | 0.012              | 0.032          | 4280                                      |
|          |                          | ▲ 18 × 31.5                 | 0.015              | 0.040          | 4170                                      |                             |                    |                |   |
| 15000    | 153                      | 18 × 35.5                   | 0.014              | 0.038          | 4220                                      |                             |                    |                |   |
| 18000    | 183                      | 18 × 40                     | 0.012              | 0.032          | 4280                                      |                             |                    |                |   |

▲: In this case, [6] will be put at 12th digit of type numbering system.  
 ●: In this case, [3] will be put at 12th digit of type numbering system.

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### ■ Dimensions

| Cap.( $\mu$ F) | V (Code) | Item Code | 16 (1C)                            |                             |                | 25 (1E)                             |                                    |                             |                |                                     |
|----------------|----------|-----------|------------------------------------|-----------------------------|----------------|-------------------------------------|------------------------------------|-----------------------------|----------------|-------------------------------------|
|                |          |           | Case size $\phi$ D $\times$ L (mm) | Impedance ( $\Omega$ ) MAX. |                | Rated ripple (mArms) 105°C / 100kHz | Case size $\phi$ D $\times$ L (mm) | Impedance ( $\Omega$ ) MAX. |                | Rated ripple (mArms) 105°C / 100kHz |
|                |          |           |                                    | 20°C / 100kHz               | -10°C / 100kHz |                                     |                                    | 20°C / 100kHz               | -10°C / 100kHz |                                     |
| 47             | 470      |           |                                    |                             |                | 5 $\times$ 11                       | 0.58                               | 2.3                         | 210            |                                     |
| 56             | 560      |           | 5 $\times$ 11                      | 0.58                        | 2.3            | 210                                 |                                    |                             |                |                                     |
| 100            | 101      |           |                                    |                             |                | 6.3 $\times$ 11                     | 0.22                               | 0.87                        | 340            |                                     |
| 120            | 121      |           | 6.3 $\times$ 11                    | 0.22                        | 0.87           | 340                                 |                                    |                             |                |                                     |
| 220            | 221      |           |                                    |                             |                | 8 $\times$ 11.5                     | 0.13                               | 0.52                        | 640            |                                     |
| 330            | 331      |           | 8 $\times$ 11.5                    | 0.13                        | 0.52           | 640                                 | 8 $\times$ 15                      | 0.087                       | 0.35           | 840                                 |
|                |          |           | ▲ 10 $\times$ 12.5                 | 0.080                       | 0.32           | 865                                 | ▲ 10 $\times$ 12.5                 | 0.080                       | 0.32           | 865                                 |
| 470            | 471      |           | 8 $\times$ 15                      | 0.087                       | 0.35           | 840                                 | 8 $\times$ 20                      | 0.069                       | 0.27           | 1050                                |
|                |          |           | ▲ 10 $\times$ 12.5                 | 0.080                       | 0.32           | 865                                 | ▲ 10 $\times$ 16                   | 0.06                        | 0.24           | 1210                                |
| 680            | 681      |           | 8 $\times$ 20                      | 0.069                       | 0.27           | 1050                                | 10 $\times$ 20                     | 0.046                       | 0.18           | 1400                                |
|                |          |           | ▲ 10 $\times$ 16                   | 0.060                       | 0.24           | 1210                                | ▲ 12.5 $\times$ 15                 | 0.049                       | 0.16           | 1450                                |
| 820            | 821      |           |                                    |                             |                | 10 $\times$ 25                      | 0.042                              | 0.17                        | 1650           |                                     |
| 1000           | 102      |           | 10 $\times$ 20                     | 0.046                       | 0.18           | 1400                                | 10 $\times$ 31.5                   | 0.031                       | 0.12           | 1910                                |
|                |          |           | ▲ 12.5 $\times$ 15                 | 0.049                       | 0.16           | 1450                                | ▲ 12.5 $\times$ 20                 | 0.035                       | 0.12           | 1900                                |
|                |          |           |                                    |                             |                |                                     | ● 16 $\times$ 15                   | 0.042                       | 0.12           | 1940                                |
| 1200           | 122      |           | 10 $\times$ 25                     | 0.042                       | 0.17           | 1650                                | 18 $\times$ 15                     | 0.043                       | 0.11           | 2210                                |
| 1500           | 152      |           | 10 $\times$ 31.5                   | 0.031                       | 0.12           | 1910                                |                                    |                             |                |                                     |
|                |          |           | ▲ 12.5 $\times$ 20                 | 0.035                       | 0.12           | 1900                                | 12.5 $\times$ 25                   | 0.027                       | 0.089          | 2230                                |
|                |          |           | ● 16 $\times$ 15                   | 0.042                       | 0.12           | 1940                                |                                    |                             |                |                                     |
| 1800           | 182      |           |                                    |                             |                | 12.5 $\times$ 31.5                  | 0.024                              | 0.078                       | 2650           |                                     |
|                |          |           |                                    |                             |                | ▲ 16 $\times$ 20                    | 0.027                              | 0.078                       | 2530           |                                     |
| 2200           | 222      |           | 12.5 $\times$ 25                   | 0.027                       | 0.089          | 2230                                | 12.5 $\times$ 35.5                 | 0.020                       | 0.065          | 2880                                |
|                |          |           | ▲ 18 $\times$ 15                   | 0.043                       | 0.11           | 2210                                | ▲ 18 $\times$ 20                   | 0.026                       | 0.067          | 2860                                |
| 2700           | 272      |           | 12.5 $\times$ 31.5                 | 0.024                       | 0.078          | 2650                                | 12.5 $\times$ 40                   | 0.017                       | 0.056          | 3350                                |
|                |          |           | ▲ 16 $\times$ 20                   | 0.027                       | 0.078          | 2530                                | ▲ 16 $\times$ 25                   | 0.021                       | 0.060          | 2930                                |
| 3300           | 332      |           | 12.5 $\times$ 35.5                 | 0.020                       | 0.065          | 2880                                | 16 $\times$ 31.5                   | 0.017                       | 0.050          | 3450                                |
|                |          |           |                                    |                             |                |                                     | ▲ 18 $\times$ 25                   | 0.019                       | 0.049          | 3140                                |
| 3900           | 392      |           | 12.5 $\times$ 40                   | 0.017                       | 0.056          | 3350                                | 16 $\times$ 35.5                   | 0.015                       | 0.044          | 3610                                |
|                |          |           | ▲ 16 $\times$ 25                   | 0.021                       | 0.060          | 2930                                |                                    |                             |                |                                     |
|                |          |           | ● 16 $\times$ 20                   | 0.026                       | 0.067          | 2860                                | ▲ 18 $\times$ 31.5                 | 0.015                       | 0.040          | 4170                                |
| 4700           | 472      |           | 16 $\times$ 31.5                   | 0.017                       | 0.050          | 3450                                | 16 $\times$ 40                     | 0.013                       | 0.038          | 4080                                |
|                |          |           | ▲ 18 $\times$ 25                   | 0.019                       | 0.049          | 3140                                | ▲ 18 $\times$ 35.5                 | 0.014                       | 0.038          | 4220                                |
| 5600           | 562      |           | 16 $\times$ 35.5                   | 0.015                       | 0.044          | 3610                                |                                    |                             |                |                                     |
|                |          |           | ▲ 18 $\times$ 31.5                 | 0.015                       | 0.040          | 4170                                | 18 $\times$ 40                     | 0.012                       | 0.032          | 4280                                |
| 6800           | 682      |           | 16 $\times$ 40                     | 0.013                       | 0.038          | 4080                                |                                    |                             |                |                                     |
| 8200           | 822      |           | 18 $\times$ 35.5                   | 0.014                       | 0.038          | 4220                                |                                    |                             |                |                                     |
| 10000          | 103      |           | 18 $\times$ 40                     | 0.012                       | 0.032          | 4280                                |                                    |                             |                |                                     |

▲ : In this case, **6** will be put at 12th digit of type numbering system.

● : In this case, **3** will be put at 12th digit of type numbering system.

## UHE

### ■ Dimensions

| V (Code)  |           | 35 (1V)                     |                    |                |   | 50 (1H)                     |                    |                |   |
|-----------|-----------|-----------------------------|--------------------|----------------|---|-----------------------------|--------------------|----------------|---|
| Cap. (μF) | Item Code | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |                | Rated ripple<br>(mArms)<br>105°C / 100kHz | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |                | Rated ripple<br>(mArms)<br>105°C / 100kHz |
|           |           |                             | 20°C / 100kHz      | -10°C / 100kHz |   |                             | 20°C / 100kHz      | -10°C / 100kHz |   |
| 2.2       | 2R2       |                             |                    |                |   | 5 × 11                      | 2.5                | 10             | 43  |
| 3.3       | 3R3       |                             |                    |                |   | 5 × 11                      | 2.2                | 8.8            | 53  |
| 4.7       | 4R7       |                             |                    |                |   | 5 × 11                      | 1.9                | 7.6            | 88  |
| 10        | 100       |                             |                    |                |   | 5 × 11                      | 1.5                | 6              | 100                                       |
| 22        | 220       |                             |                    |                |   | 5 × 11                      | 0.70               | 2.8            | 180                                       |
| 33        | 330       | 5 × 11                      | 0.58               | 2.3            | 210                                       | 6.3 × 11                    | 0.30               | 1.2            | 295                                       |
| 47        | 470       | 6.3 × 11                    | 0.22               | 0.87           | 250                                       | 6.3 × 11                    | 0.30               | 1.2            | 295                                       |
| 56        | 560       | 6.3 × 11                    | 0.22               | 0.87           | 340                                       | 6.3 × 11                    | 0.30               | 1.2            | 295                                       |
| 100       | 101       | 8 × 11.5                    | 0.13               | 0.52           | 640                                       | 8 × 11.5                    | 0.17               | 0.68           | 555                                       |
| 120       | 121       |                             |                    |                |   | 8 × 15                      | 0.12               | 0.48           | 730                                       |
| 150       | 151       | 8 × 11.5                    | 0.13               | 0.52           | 640                                       | 10 × 12.5                   | 0.12               | 0.48           | 760                                       |
| 180       | 181       |                             |                    |                |   | 8 × 20                      | 0.091              | 0.36           | 910                                       |
| 220       | 221       | 8 × 15                      | 0.087              | 0.35           | 840                                       | 10 × 16                     | 0.084              | 0.34           | 1050                                      |
|           |           | ▲ 10 × 12.5                 | 0.080              | 0.32           | 865                                       |                             |                    |                |   |
| 270       | 271       | 8 × 20                      | 0.069              | 0.27           | 1050                                      | 10 × 20                     | 0.060              | 0.24           | 1220                                      |
|           |           | ▲ 12.5 × 15                 |                    |                |   | ▲ 12.5 × 15                 | 0.061              | 0.20           | 1260                                      |
| 330       | 331       | 10 × 16                     | 0.060              | 0.24           | 1210                                      | 10 × 25                     | 0.055              | 0.22           | 1440                                      |
|           |           |                             |                    |                |   | ▲ 10 × 20                   | 0.060              | 0.24           | 1220                                      |
| 470       | 471       | 10 × 20                     | 0.046              | 0.18           | 1400                                      | 10 × 31.5                   | 0.043              | 0.17           | 1690                                      |
|           |           | ▲ 12.5 × 15                 | 0.049              | 0.16           | 1450                                      | ▲ 12.5 × 20                 | 0.045              | 0.15           | 1660                                      |
|           |           |                             |                    |                |   | ● 16 × 15                   | 0.055              | 0.17           | 1690                                      |
| 560       | 561       | 10 × 25                     | 0.042              | 0.17           | 1650                                      | 12.5 × 25                   | 0.034              | 0.11           | 1950                                      |
|           |           |                             |                    |                |   | ▲ 18 × 15                   | 0.054              | 0.15           | 1930                                      |
| 680       | 681       | 10 × 31.5                   | 0.031              | 0.12           | 1910                                      | 12.5 × 31.5                 | 0.030              | 0.10           | 2310                                      |
|           |           | ▲ 12.5 × 20                 | 0.035              | 0.12           | 1900                                      |                             |                    |                |   |
|           |           | ● 16 × 15                   | 0.042              | 0.12           | 1940                                      |                             |                    |                |   |
| 820       | 821       |                             |                    |                | 12.5 × 35.5                               | 0.025                       | 0.083              | 2510           |   |
|           |           |                             |                    |                | ▲ 16 × 20                                 | 0.034                       | 0.10               | 2210           |   |
| 1000      | 102       | 12.5 × 25                   | 0.027              | 0.089          | 2230                                      | 12.5 × 40                   | 0.021              | 0.069          | 2920                                      |
|           |           | ▲ 18 × 15                   | 0.043              | 0.11           | 2210                                      | ▲ 16 × 25                   | 0.025              | 0.075          | 2555                                      |
|           |           |                             |                    |                |   | ● 18 × 20                   | 0.036              | 0.097          | 2490                                      |
| 1200      | 122       | 12.5 × 31.5                 | 0.024              | 0.078          | 2650                                      | 16 × 31.5                   | 0.022              | 0.066          | 3010                                      |
|           |           | ▲ 16 × 20                   | 0.027              | 0.078          | 2530                                      | ▲ 18 × 25                   | 0.026              | 0.070          | 2740                                      |
| 1500      | 152       | 12.5 × 35.5                 | 0.020              | 0.065          | 2880                                      | 16 × 35.5                   | 0.019              | 0.057          | 3150                                      |
| 1800      | 182       | 12.5 × 40                   | 0.017              | 0.056          | 3350                                      | 16 × 40                     | 0.016              | 0.048          | 3710                                      |
|           |           | ▲ 16 × 25                   | 0.021              | 0.060          | 2930                                      |                             |                    |                |   |
|           |           | ● 18 × 20                   | 0.026              | 0.067          | 2860                                      |                             |                    |                |   |
| 2200      | 222       | 16 × 31.5                   | 0.017              | 0.050          | 3450                                      | ▲ 18 × 35.5                 | 0.017              | 0.046          | 3680                                      |
|           |           | ▲ 18 × 25                   | 0.019              | 0.049          | 3140                                      |                             |                    |                |   |
| 2700      | 272       | 16 × 35.5                   | 0.015              | 0.044          | 3610                                      | 18 × 40                     | 0.014              | 0.038          | 3800                                      |
|           |           | ▲ 18 × 31.5                 | 0.015              | 0.040          | 4170                                      |                             |                    |                |   |
| 3300      | 332       | 16 × 40                     | 0.013              | 0.038          | 4080                                      |                             |                    |                |   |
|           |           | ▲ 18 × 35.5                 | 0.014              | 0.038          | 4220                                      |                             |                    |                |   |
| 3900      | 392       | 18 × 40                     | 0.012              | 0.032          | 4280                                      |                             |                    |                |   |

▲ : In this case, 6 will be put at 12th digit of type numbering system.  
 ● : In this case, 3 will be put at 12th digit of type numbering system.

## UHE

### ■ Dimensions

| V (Code)<br>Item<br>Cap.(μF) Code |     | 63 (1J)                     |                    |                |   | 100 (2A)                    |                    |                |   |
|-----------------------------------|-----|-----------------------------|--------------------|----------------|---|-----------------------------|--------------------|----------------|---|
|                                   |     | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |                | Rated ripple<br>(mArms)<br>105°C / 100kHz | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |                | Rated ripple<br>(mArms)<br>105°C / 100kHz |
|                                   |     |                             | 20°C / 100kHz      | -10°C / 100kHz |   |                             | 20°C / 100kHz      | -10°C / 100kHz |   |
| 6.8                               | 6R8 |                             |                    |                |   | 5 × 11                      | 2.3                | 9.3            | 62  |
| 15                                | 150 | 5 × 11                      | 2.3                | 9.3            | 62  | 6.3 × 11                    | 1.2                | 5.0            | 126                                       |
| 27                                | 270 |                             |                    |                |   | 8 × 11.5                    | 0.63               | 2.8            | 260                                       |
| 33                                | 330 | 6.3 × 11                    | 1.2                | 5.0            | 126                                       |                             |                    |                |   |
| 39                                | 390 |                             |                    |                |   | 8 × 15                      | 0.45               | 2.1            | 335                                       |
| 47                                | 470 | 8 × 11.5                    | 0.63               | 2.8            | 260                                       | 10 × 12.5                   | 0.43               | 1.8            | 325                                       |
| 56                                | 560 | 8 × 11.5                    | 0.63               | 2.8            | 260                                       | 8 × 20                      | 0.33               | 1.6            | 408                                       |
| 68                                | 680 |                             |                    |                |   | 10 × 16                     | 0.31               | 1.5            | 400                                       |
| 82                                | 820 | 8 × 15                      | 0.45               | 2.1            | 335                                       | 10 × 20                     | 0.21               | 0.94           | 518                                       |
|                                   |     | ▲ 10 × 12.5                 | 0.43               | 1.8            | 325                                       | ▲ 12.5 × 15                 | 0.23               | 1.1            | 527                                       |
| 100                               | 101 |                             |                    |                |   | 10 × 25                     | 0.20               | 0.84           | 595                                       |
|                                   |     |                             |                    |                |   | ▲ 12.5 × 20                 | 0.20               | 0.84           | 740                                       |
| 120                               | 121 | 8 × 20                      | 0.33               | 1.6            | 408                                       | 10 × 31.5                   | 0.15               | 0.71           | 740                                       |
|                                   |     | ▲ 10 × 16                   | 0.31               | 1.5            | 400                                       | ▲ 12.5 × 20                 | 0.16               | 0.64           | 765                                       |
| 150                               | 151 |                             |                    |                |   | 16 × 15                     | 0.14               | 0.66           | 895                                       |
| 180                               | 181 | 10 × 20                     | 0.21               | 0.94           | 518                                       | 12.5 × 25                   | 0.12               | 0.45           | 875                                       |
|                                   |     | ▲ 12.5 × 15                 | 0.23               | 1.1            | 527                                       | ▲ 18 × 15                   | 0.12               | 0.50           | 1030                                      |
| 220                               | 221 | 10 × 25                     | 0.20               | 0.84           | 595                                       | 12.5 × 31.5                 | 0.10               | 0.42           | 1010                                      |
|                                   |     |                             |                    |                |   | ▲ 16 × 20                   | 0.091              | 0.38           | 1130                                      |
| 270                               | 271 | 10 × 31.5                   | 0.15               | 0.71           | 740                                       |                             |                    |                |   |
|                                   |     | ▲ 12.5 × 20                 | 0.16               | 0.64           | 765                                       | 12.5 × 35.5                 | 0.083              | 0.35           | 1140                                      |
|                                   |     | ● 16 × 15                   | 0.14               | 0.66           | 895                                       | ▲ 16 × 25                   | 0.073              | 0.27           | 1350                                      |
| 330                               | 331 | 12.5 × 25                   | 0.12               | 0.45           | 875                                       | 12.5 × 40                   | 0.071              | 0.30           | 1280                                      |
|                                   |     |                             |                    |                |   | ▲ 18 × 20                   | 0.080              | 0.30           | 1300                                      |
| 390                               | 391 | 18 × 15                     | 0.12               | 0.50           | 1030                                      | 16 × 31.5                   | 0.054              | 0.20           | 1650                                      |
|                                   |     |                             |                    |                |   | ▲ 18 × 25                   | 0.057              | 0.21           | 1560                                      |
| 470                               | 471 | 12.5 × 31.5                 | 0.10               | 0.42           | 1010                                      | 16 × 35.5                   | 0.045              | 0.17           | 1900                                      |
|                                   |     | ▲ 16 × 20                   | 0.091              | 0.38           | 1130                                      | ▲ 18 × 31.5                 | 0.047              | 0.17           | 1720                                      |
| 560                               | 561 | 12.5 × 35.5                 | 0.083              | 0.35           | 1140                                      |                             |                    |                |   |
|                                   |     | ▲ 16 × 25                   | 0.073              | 0.27           | 1350                                      | 16 × 40                     | 0.040              | 0.15           | 2130                                      |
| 680                               | 681 | 12.5 × 40                   | 0.071              | 0.30           | 1280                                      |                             |                    |                |   |
|                                   |     | ▲ 18 × 20                   | 0.080              | 0.30           | 1300                                      | 18 × 35.5                   | 0.040              | 0.15           | 1890                                      |
| 820                               | 821 | 16 × 31.5                   | 0.054              | 0.20           | 1650                                      |                             |                    |                |   |
|                                   |     | ▲ 18 × 25                   | 0.057              | 0.21           | 1560                                      | 18 × 40                     | 0.036              | 0.13           | 2470                                      |
| 1000                              | 102 | 16 × 35.5                   | 0.045              | 0.17           | 1900                                      |                             |                    |                |   |
|                                   |     | ▲ 18 × 31.5                 | 0.047              | 0.17           | 1720                                      |                             |                    |                |   |
| 1200                              | 122 | 16 × 40                     | 0.040              | 0.15           | 2130                                      |                             |                    |                |   |
|                                   |     | ▲ 18 × 35.5                 | 0.040              | 0.15           | 1890                                      |                             |                    |                |   |
| 1500                              | 152 | 18 × 40                     | 0.036              | 0.13           | 2470                                      |                             |                    |                |   |

▲ : In this case, **6** will be put at 12th digit of type numbering system.

● : In this case, **3** will be put at 12th digit of type numbering system.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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